

Molly O'Toole, EIT

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Professional Summary

EIT-certified Structural Engineer with 3 years of internship experience. Unique physics background offers a highly analytical mindset to design projects. Seeking role with growth potential while exploring interest in design and analysis of new and rehabilitated structures. Strives to earn SE/PE license in the future.

Education

MS STRUCTURAL ENGINEERING | EXPECTED MAY 2017 | TUFTS UNIVERSITY

- GPA 3.41
- Highlighted coursework: Advanced Steel Design, Advanced Structural Analysis, Bridge Design & Rehabilitation, Structural Dynamics & Earthquake Engineering, Inelastic Composite Materials

BS CIVIL ENGINEERING | MAY 2016 | UNIVERSITY OF NOTRE DAME

- Concentration in Structures
- Highlighted coursework: Civil Engineering Materials, Dynamics and Modeling, Reinforced Concrete Design, Structural Steel Design, Structural Analysis, Structural Systems, Bridge Engineering
- First Place Overall PCI Big Beam Competition 2016: Team collaborated to design, construct, and test a reinforced prestressed concrete beam. Produced video submission.

BA PHYSICS | MAY 2016 | STONEHILL COLLEGE

- Part of a 5 year dual degree program between Stonehill and Notre Dame
- Highlighted coursework: Engineering Statics, Mechanics of Solids, Computer Science I & II

Practical Skills

SOFTWARE & LANGUAGES - Revit, AutoCAD, SAP2000, MATLAB, LabVIEW, MS Office Suite, R, Java

DESIGN CODES, STANDARDS, & MANUALS - AISC Steel Construction Manual 2011, ACI 318-14, IBC 2012, ASCE 7-10, Indiana Design Manual 2013

LABORATORY - Slump Test, Air Test, Ultrasonic Pulse Velocity, create mix designs, make cylinders, Instron-Satec machine to test compressive and tensile strength of materials, strain gauge

Relevant Experience

STRUCTURAL ENGINEER INTERN | ODEH ENGINEERS | MAY 2015 – AUGUST 2016

- Assist engineers in the design and analysis of structures using the AISC Steel Manual and SAP2000
- Create Revit models of existing buildings for renovations using original drawings
- Operate laser scanner and use the point cloud to create a Revit model of the structure
- Evaluate and observe site conditions at beginning stages and construction stages of projects
- Train and mentor new interns in Revit, engineering concepts, and office practices

CONSTRUCTION ENGINEER INTERN | MASSDOT | JUNE 2014 – AUGUST 2014

- Learn and utilize bridge plans for two essential bridges in the Cape Cod, MA area
- Observe major construction operations such as rebar placement, concrete deck pour, setting H-piles, electrical vault relocation, concrete sidewalk pour, paving and striping of the road, etc